

Tennessee Education Lottery

Estimates for Net Lottery Proceeds & After-School Funding

Prepared by:
Robert Currey, Fiscal Review Committee
December 11, 2014





Historical Results

	FY10-11	FY11-12	FY12-13	FY13-14
Total Revenue	\$1,106,678,193	\$1,221,573,973	\$1,280,366,277	\$1,323,572,632
Prize Expense	\$695,149,156	\$770,568,219	\$812,547,301	\$850,790,713
Retailer Commissions	\$77,456,838	\$85,525,965	\$89,258,881	\$92,492,072

\$17,212,674

\$37,917,640

\$911,224,498

\$310,349,475

\$13,089,186

\$323,438,661

Net Lottery Proceeds \$281,846,371

After-School Funding \$11,643,581

Total State Proceeds \$293,489,952

Operating Expense

Other Expenses

Total Expenses

\$15,698,291

\$36,527,537

\$824,831,822

\$16,916,511

\$40,101,263

\$958,823,956

\$321,542,321

\$18,170,504

\$339,712,825

\$17,313,853

\$39,994,473

\$1,000,591,111

\$322,981,521

\$14,290,845

\$337,272,366



Actual Growth in FY13-14

	FY12-13	FY13-14	Growth
Instant Games (Net)	\$996,423,521	\$1,051,315,504	5.51%
Cash 3 and Cash 4	\$86,382,831	\$88,488,829	2.44%
PB, MM, & Hot Lotto	\$167,542,663	\$161,108,414	-3.84%
Tennessee Cash	\$24,871,472	\$18,342,570	-26.25%
Misc. Revenue	\$5,145,790	\$4,317,315	-16.10%
Total Net Revenue	\$1,280,366,277	\$1,323,572,632	3.37%
Total Expenses	\$958,823,956	\$1,000,591,111	4.36%
NET LOTTERY PROCEEDS	\$321,542,321	\$322,981,521	<u>0.45%</u>
After-School Proceeds	\$18,170,504	\$14,290,845	-21.35%
TOTAL STATE PROCEEDS	<u>\$339,712,825</u>	\$337,272,366	<u>-0.72%</u>



Instant Game Growth in FY13-14

Price Point	Percent of Instant Game Sales	FY12-13 Gross Sales (Millions)	FY13-14 Gross Sales (Millions)	Percent Sales Growth	Dollar Growth (Millions)
\$1	8.0%	\$96.4	\$91.7	-4.9%	-\$4.7
\$2	20.1%	\$229.7	\$230.9	0.5%	\$1.2
\$3	7.7%	\$79.4	\$88.4	11.3%	\$9.0
\$ 5	22.8%	\$270.3	\$262.1	-3.0%	-\$8.2
\$10	16.9%	\$169.7	\$193.7	14.1%	\$24.0
\$20	15.1%	\$204.6	\$173.7	-15.1%	-\$30.9
\$25	9.4%	\$38.5	\$108.7	182.3%	\$70.2



Growth in Numbers Games – FY13-14

• *CASH 3*:

- FY12-13 sales: \$57,163,661
- FY13-14 sales: \$57,673,163
- FY13-14 dollar growth: + \$509,502
- FY13-14 percent growth: + 0.9%

• *CASH 4*:

- FY12-13 sales: \$29,219,170
- FY13-14 sales: \$30,815,666
- FY13-14 dollar growth: +\$1,596,496
- *FY13-14 percent growth:* + 5.5%



Powerball Growth in FY13-14

- FY12-13 sales: \$133,207,374
- FY13-14 sales: \$100,950,615
- FY13-14 dollar growth: \$32,256,759
- FY13-14 percent growth: 24.2%

Fiscal Year	Average Jackpot Cycle	Highest Jackpot Cycle	Drawings with Jackpots \$250.0 Million or More	Jackpot Winners	
FY12-13	\$121,620,192	\$590,500,000	10	15	
FY13-14	\$118,090,385	\$448,400,000	9	11	



Mega Millions Growth in FY13-14

- FY12-13 sales: \$31,920,994
- FY13-14 sales: \$47,042,505
- FY13-14 dollar growth: +\$15,121,511
- FY13-14 percent growth: + 47.4%

Fiscal Year	Average Jackpot Cycle	-	Drawings with Jackpots \$100.0 Million or More	Winnord	
FY12-13	\$42,855,769	\$190,000,000	9	15	
FY13-14	\$98,201,923	\$636,000,000	35	8	



Hot Lotto Growth in FY13-14

- FY12-13 sales: \$2,414,295 (Partial Year)
- FY12-13 sales: first week of sales were 05/18/2013
- FY13-14 sales: \$13,115,294 (Full Year)
- FY13-14 dollar growth: + \$10,700,999
- FY13-14 percent growth: + 443.2% (not true growth)
- Have not seen two complete fiscal years of sales data
- Introduction probably cannibalized sales for Powerball and other multi-jurisdictional games in FY13-14.



Tennessee Cash Growth in FY13-14

- FY12-13 sales: \$24,871,472
- FY13-14 sales: \$18,342,570
- FY13-14 dollar growth: \$6,528,902
- FY13-14 percent growth: 26.3%

Fiscal Year	Average Jackpot Cycle	Highest Jackpot Cycle	Drawings with Jackpots \$750,000 or More	Jackpot Winners	
FY12-13	\$525,545	\$2,200,000	32	11	
FY13-14	\$385,764	\$1,240,000	12	13	



All Jackpot Games in FY13-14

- Includes Powerball, Mega Millions, Hot Lotto, and Tennessee Cash
- FY12-13 combined sales: \$192,414,135
- FY13-14 combined sales: \$179,450,984
- FY13-14 net dollar growth: \$12,963,151
- FY13-14 percent growth: 6.7%

	The second of the second of		No. of the control of	
Game	FY12-13	FY13-14	Difference	Percent Change
Powerball	\$133,207,374	\$100,950,615	(\$32,256,759)	-24.2%
Mega Millions	\$31,920,994	\$47,042,505	\$15,121,511	47.4%
Hot Lotto	\$2,414,295	\$13,115,294	\$10,700,999	443.2%
TN Cash	\$24,871,472	\$18,342,570	(\$6,528,902)	-26.3%
Total	\$192,414,135	\$179,450,984	(\$12,963,151)	-6.7%



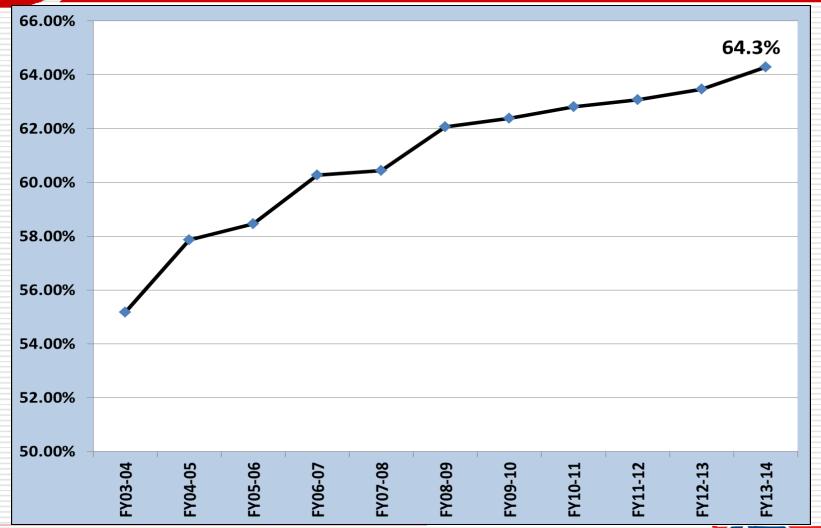
Revenue – Recap for FY13-14

- □ *Total net revenue in FY13-14:* \$1,323,572,632
- □ Total net revenue growth in FY13-14: 3.37%
- ☐ Majority of growth coming from instant game products (\$10 and \$25 price points) 81% of sales
- Moderate growth in numbers games (C3 and C4) -6% of sales
- □ Negative growth in jackpot based games 13% of sales
- □ Last 3 years diminishing rates of growth (10.4%, 4.8%, and 3.4% respectively)





Prize Expense (as % of Revenue)



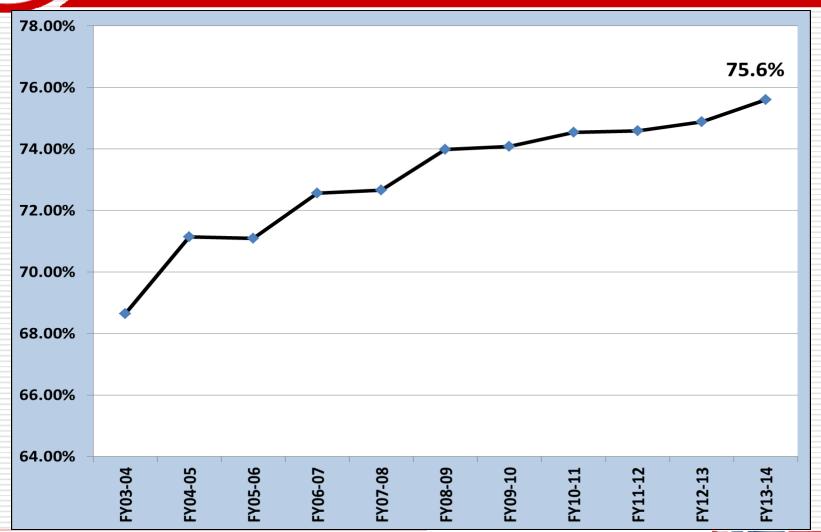


Revenue & Prize Expense (\$)



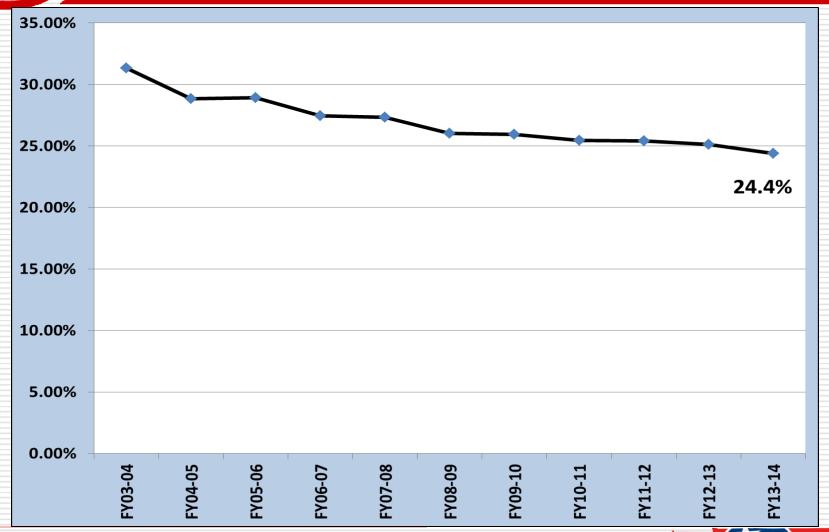


Total Expenses (as a % of Revenue)





Net Lottery Proceeds (as a % of Revenue)





Marginal Expense vs. Marginal Revenue

	Marginal Prize Expense	Marginal Expense	Marginal Revenue	Marginal Proceeds
FY09-10	\$30,713,704	\$33,487,823	\$43,980,242	\$10,492,419
FY10-11	\$31,107,633	\$36,259,283	\$42,127,107	\$5,867,824
FY11-12	\$75,419,063	\$86,392,676	\$114,895,780	\$28,503,104
FY12-13	\$41,979,082	\$47,599,458	\$58,792,304	\$11,192,846
FY13-14	\$38,243,412	\$41,767,155	\$43,206,355	\$1,439,200



Profit (Proceeds) Maximization

- So when marginal proceeds get closer to \$0, closer to the profit maximization point (sweet spot).
- Occurs when marginal revenue = marginal expense
- At least for the same offering of games with a constant payout ratio.
- When this happens, lotteries must introduce something new (i.e. new game, new ways to win for existing games, modifications to payout ratios, matrix changes for jackpot games, etc...).
- FY14-15: Introduction of a new spotlight instant game (January 2015); implement changes to Powerball (April 2015); and the recent introduction of Monopoly Millionaires Club (October 2014).



FY14-15: Year-to-Date

- □ As of October 31, 2014
- □ Total Net Revenue: + 0.9%
 - **■** *Instant Games:* + 5.5%
 - Cash 3 and Cash 4: +2.5%
 - Multi-Jurisdictional (PB, MM, HL, and MMC): 25.6%
 - **Tennessee Cash:** + 18.4%
- □ Total Expenses: + 0.9%
 - *Prize Expense:* +1.1%
 - Total Expenses / Total Net Revenue: 75.62%
- □ Net Lottery Proceeds (NLP): + 0.8%
 - Net Lottery Proceeds / Total Net Revenue: 24.38%



Assumptions for FY14-15

- Changes for Powerball occur in April 2015
- No changes to MM or Hot Lotto
- Continued promotion and market development for MMC
- No changes to Cash 3, Cash 4, or TN Cash
- No new TN-exclusive online games
- Launch of one spotlight instant game in Jan. 2015
- Two more PB jackpot cycles above \$350 million
- Two more MM jackpot cycles above \$200 million
- No extraordinary changes to the retailer base
- No legislative changes
- Total Expenses = 75.8% of Total Net Revenue
- Net Lottery Proceeds = 24.2% of Total Net Revenue





FY14-15 Estimates

	Low	Median	Upper
Instant Games (Net)	\$1,090,000,000	\$1,100,000,000	\$1,110,000,000
Cash 3 and Cash 4	\$88,700,000	\$89,500,000	\$90,300,000
PB, MM, and Hot Lotto	\$136,000,000	\$140,000,000	\$144,000,000
Tennessee Cash	\$18,500,000	\$19,000,000	\$19,500,000
Monopoly Millionaires Club	\$5,500,000	\$6,000,000	\$6,500,000
Misc. Revenue	\$4,400,000	\$4,500,000	\$4,600,000
Total Net Revenue (100.0%)	\$1,343,100,000	\$1,359,000,000	\$1,374,900,000
Total Expenses (75.8%)	\$1,018,100,000	\$1,030,100,000	\$1,042,200,000
NET LOTTERY PROCEEDS (24.2%)	\$325,000,000	\$328,900,000	\$332,700,000
After-School Funding	\$13,500,000	\$14,000,000	\$14,500,000
TOTAL STATE PROCEEDS	\$338,500,000	\$342,900,000	\$347,200,000



Assumptions for FY15-16

- No new multi-jurisdictional games
- No changes to PB, MM, Hot Lotto, or MMC
- No changes to Cash 3, Cash 4, or TN Cash
- No new TN-exclusive online games
- Launch of at least one spotlight instant game
- At least 2 PB jackpot cycles above \$350 million
- At least 2 MM jackpot cycles above \$200 million
- No extraordinary changes to the retailer base
- No legislative changes
- Total Expenses = 76.1% of Total Net Revenue
- Net Lottery Proceeds = 23.9% of Total Net Revenue





FY15-16 Estimates

	Low	Median	Upper
Instant Games (Net)	\$1,125,000,000	\$1,145,000,000	\$1,165,000,000
Cash 3 and Cash 4	\$89,000,000	\$90,000,000	\$91,000,000
PB, MM, and Hot Lotto	\$135,000,000	\$140,000,000	\$145,000,000
Tennessee Cash	\$18,000,000	\$18,500,000	\$19,000,000
Monopoly Millionaires Club	\$6,000,000	\$7,000,000	\$8,000,000
Misc. Revenue	\$4,500,000	\$4,600,000	\$4,700,000
Total Net Revenue (100.0%)	\$1,377,500,000	\$1,405,100,000	\$1,432,700,000
Total Expenses (76.1%)	\$1,048,300,000	\$1,069,300,000	\$1,090,300,000
NET LOTTERY PROCEEDS (23.9%)	\$329,200,000	\$335,800,000	\$342,400,000
After-School Funding	\$13,500,000	\$14,000,000	\$14,500,000
TOTAL STATE PROCEEDS	\$342,700,000	\$349,800,000	\$356,900,000



Subsequent Years

- ☐ Growth beyond FY15-16 is difficult to forecast due to a number of unknown factors such as:
 - Changes to payout ratios
 - Matrix changes to jackpot based games
 - Structure changes to pari-mutuel and online games
 - Legislative action
 - Varying jackpot cycles
 - New and discontinued games
 - Changes to retailer base
 - Changes in advertising
 - Changes in economy
 - Changes in gas prices....





FY16-17, FY17-18 and FY18-19

Estimated Growth for Total Net Revenue: 2.5% per year Estimated Growth for Net Lottery Proceeds: 1.8% per year

	FY16-17	FY17-18	FY18-19
Total Net Revenue	\$1,440,227,000	\$1,476,233,000	\$1,513,139,000
Total Expenses	\$1,098,383,000	\$1,128,236,000	\$1,158,878,000
Net Lottery Proceeds	<u>\$341,844,000</u>	\$347,997,000	<u>\$354,261,000</u>
After-School Funding	\$14,200,000	\$14,400,000	\$14,600,000
Total State Proceeds	<u>\$356,044,000</u>	\$362,397,000	<u>\$368,861,000</u>